OBSTRUCTION DATA SHEET

ODS 220
PURDUE UNIVERSITY AIRPORT
LAFAYETTE, INDIANA

DIGITIZED FROM

OC 220
SURVEYED NOVEMBER 1988
9TH EDITION

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

C 55.411/3:

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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

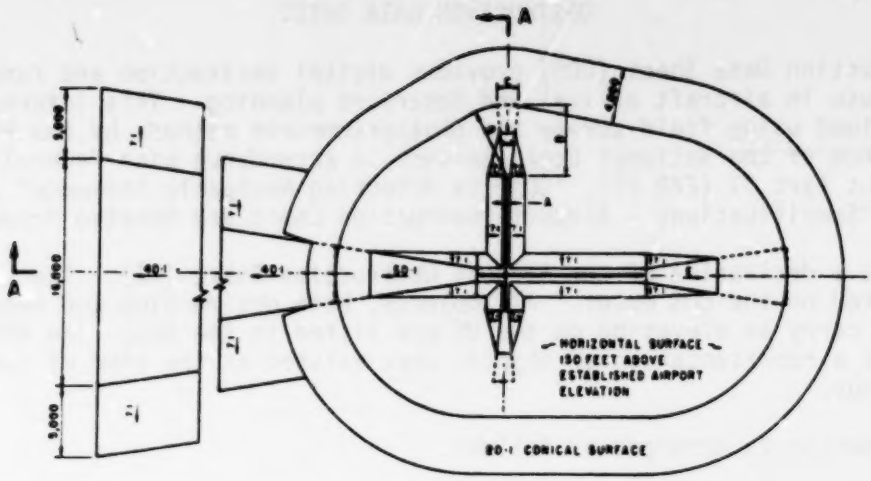
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

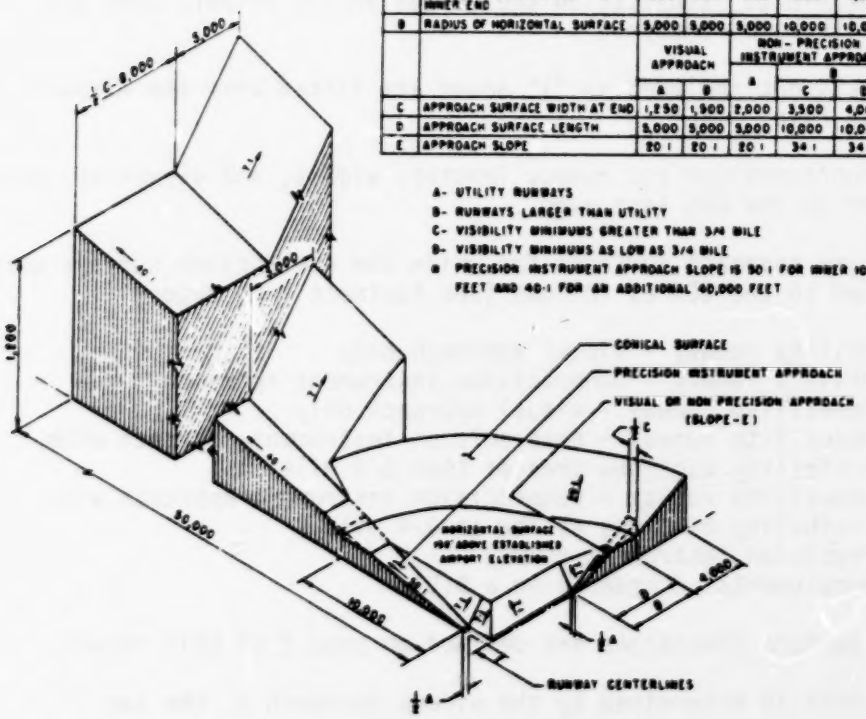
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON - PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON - PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20 : 1	20 : 1	20 : 1	34 : 1	34 : 1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50 : 1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X^{1}	X^{2} XXXX/XXXX^{3}	XXXXXX.XXX^{4}	XXXXXXX.XXX^{4}	XXXXXXX^{5}		XXXX/XXXX^{6}	XXXXXX.XXX^{7}	XXXXXXX.XXX^{7}					
OBJECT		LAT	LONG	A^{8}	ELEV^{9}	AGL^{10}	HAR^{11}	HAT^{11}	HAA^{11}	DEND^{12}	DTHR^{12}	DCLN^{12}	PNTR^{13}
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX		XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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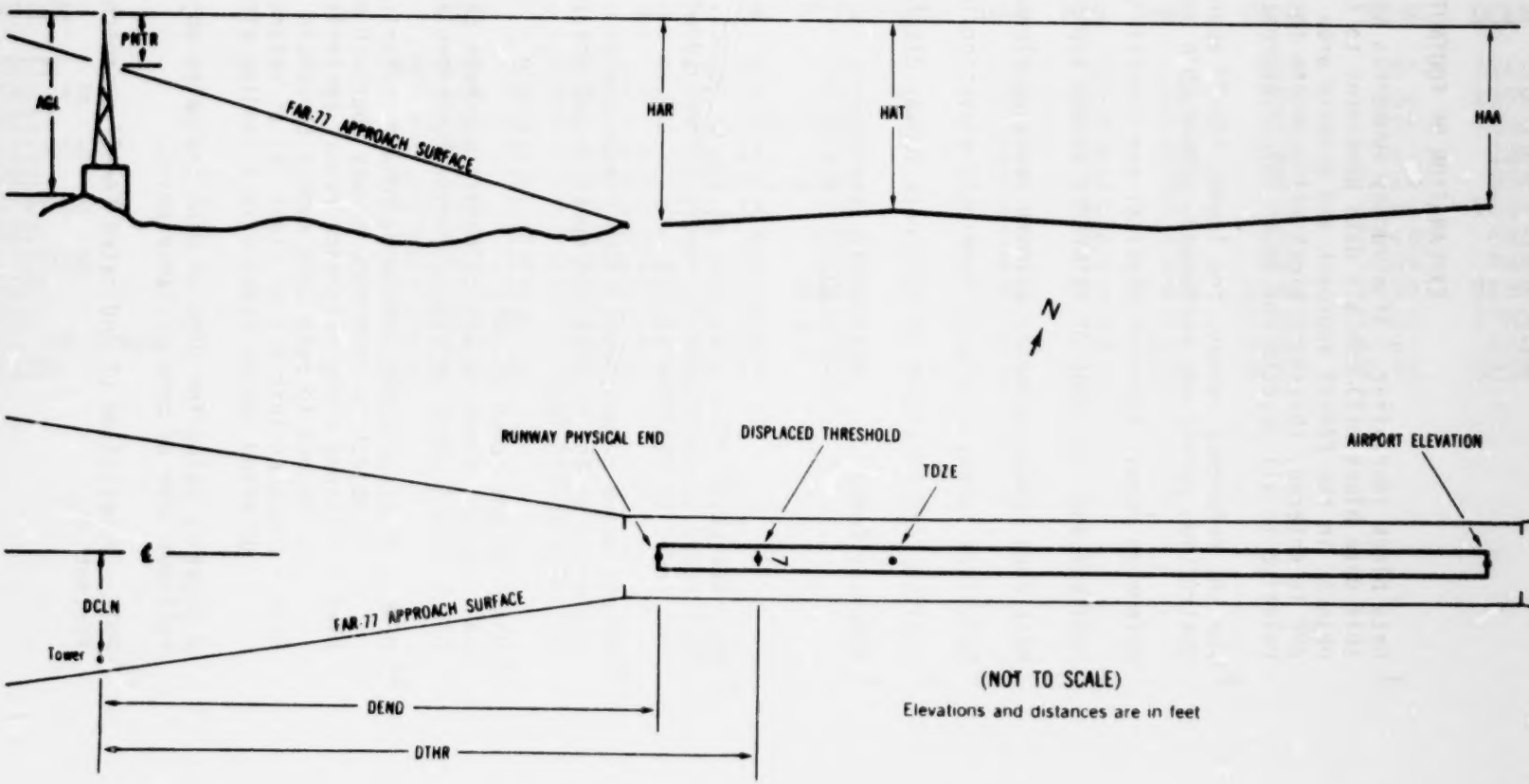


EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0220

AIRPORT ELEVATION 606

5 A(V) 593/597 402429.373N 0865620.441W 2293107

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
											125R	4
BUSH	402425.71	0865623.57	1A	608		15	11	2	425		15R	-2
BUSH	402426.38	0865624.73	1A	603		10	6	-3	449			

23 A(V) 606/ 402456.479N 0865538.890W 0493133 603/603 402454.473N 0865541.965W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
	402457.23	0865535.04	1A	614		8	11	8	276	589	136L	4
FENCE	402459.90	0865536.37	1A	620		14	17	14	373	686	137R	5
ROAD (N)	402458.69	0865532.64	1A	626		20	23	20	513	826	144L	4
TREE	402500.71	0865532.83	1A	629		23	26	23	634	947	22R	1
RAILROAD	402501.26	0865532.32	1A	644		38	41	38	701	1014	39R	13
TREE	402502.07	0865532.32	1A	643		37	40	37	754	1066	100R	9
OL POLE	402501.26	0865530.17	1A	639		33	36	33	827	1140	69L	2
TREE	402502.75	0865530.75	1A	647		41	44	41	891	1204	74R	6
OL POLE	402505.43	0865529.40	1A	646		40	43	40	1146	1459	213R	-7
TREE	402505.84	0865528.09	1A	645		39	42	39	1250	1563	178R	-14
POLE	402522.13	0865458.63	1A	707		101	104	101	4054	4367	46L	-92
ROD ON TOWER	402530.55	0865454.30	1A	734		128	131	128	4862	5175	385R	-105
SPIRE												

OC0220

AIRPORT ELEVATION 606

10 PIR 600/601 402450.199N 08657 3.321W 2790611

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	402440.92	0865628.24	1A	616		16	15	10	-2828		498R	17
TREE	402441.66	0865634.80	1A	617		17	16	11	-2315		504R	17
ROD ON OL GLIDE SLOPE	402444.70	0865651.25	1A	650		50	49	44	-1010		401R	49
FENCE	402448.30	0865708.54	1A	603		3	2	-3	368		254R	0
TREE	402448.24	0865709.52	1A	615		15	14	9	442		271R	10
TREE	402456.21	0865721.49	1A	624		24	23	18	1484		378L	-2
TREE	402446.25	0865732.10	1A	651		51	50	45	2135		747R	12
TREE	402451.00	0865740.44	1A	659		59	58	53	2848		374R	6
TREE	402504.89	0865744.52	1A	693		93	92	87	3382		964L	29
TREE	402503.19	0865747.63	1A	677		77	76	71	3592		756L	9

OC0220

AIRPORT ELEVATION 606

28 C 598/598 402439.873N 0865539.085W 0990706

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
											401L	49
ROD ON OL GLIDE SLOPE	402444.70	0865651.25	1A	650		52	52	44	-5590		504L	17
TREE	402441.66	0865634.80	1A	617		19	19	11	-4284		498L	17
TREE	402440.92	0865628.24	1A	616		18	18	10	-3772		474L	24
TREE	402434.89	0865537.08	1A	623		25	25	17	233		319R	13
ANTENNA ON BUILDING	402442.58	0865535.12	1A	613		15	15	7	259		0R	0
OL ON LOCALIZER	402439.40	0865535.25	1A	601		3	3	-5	300		89R	4
BUSH	402440.12	0865533.84	1A	608		10	10	2	396		185L	5
BUSH	402437.43	0865534.29	1A	609		11	11	3	405		565R	25
TREE	402444.10	0865527.45	1A	641		43	43	35	821		169L	8
TREE	402436.80	0865527.78	1A	627		29	29	21	913		444R	4
TREE	402442.68	0865525.77	1A	625		27	27	19	972		391L	2
TREE	402433.99	0865523.03	1A	633		35	35	27	1321		240L	3
TREE	402435.25	0865521.00	1A	638		40	40	32	1455		670R	-9
TREE	402443.47	0865513.79	1A	638		40	40	32	1874		436R	-4
TREE	402440.90	0865511.93	1A	649		51	51	43	2057		259R	-22
TREE	402439.06	0865511.31	1A	633		35	35	27	2134		1069L	-76
TREE	402418.98	0865416.12	1B	712		114	114	106	6672		1413R	-132
GRAIN ELEVATOR	402437.77	0865326.88	1A	758		160	160	152	10131			
TREE												

OC0220

AIRPORT ELEVATION 606

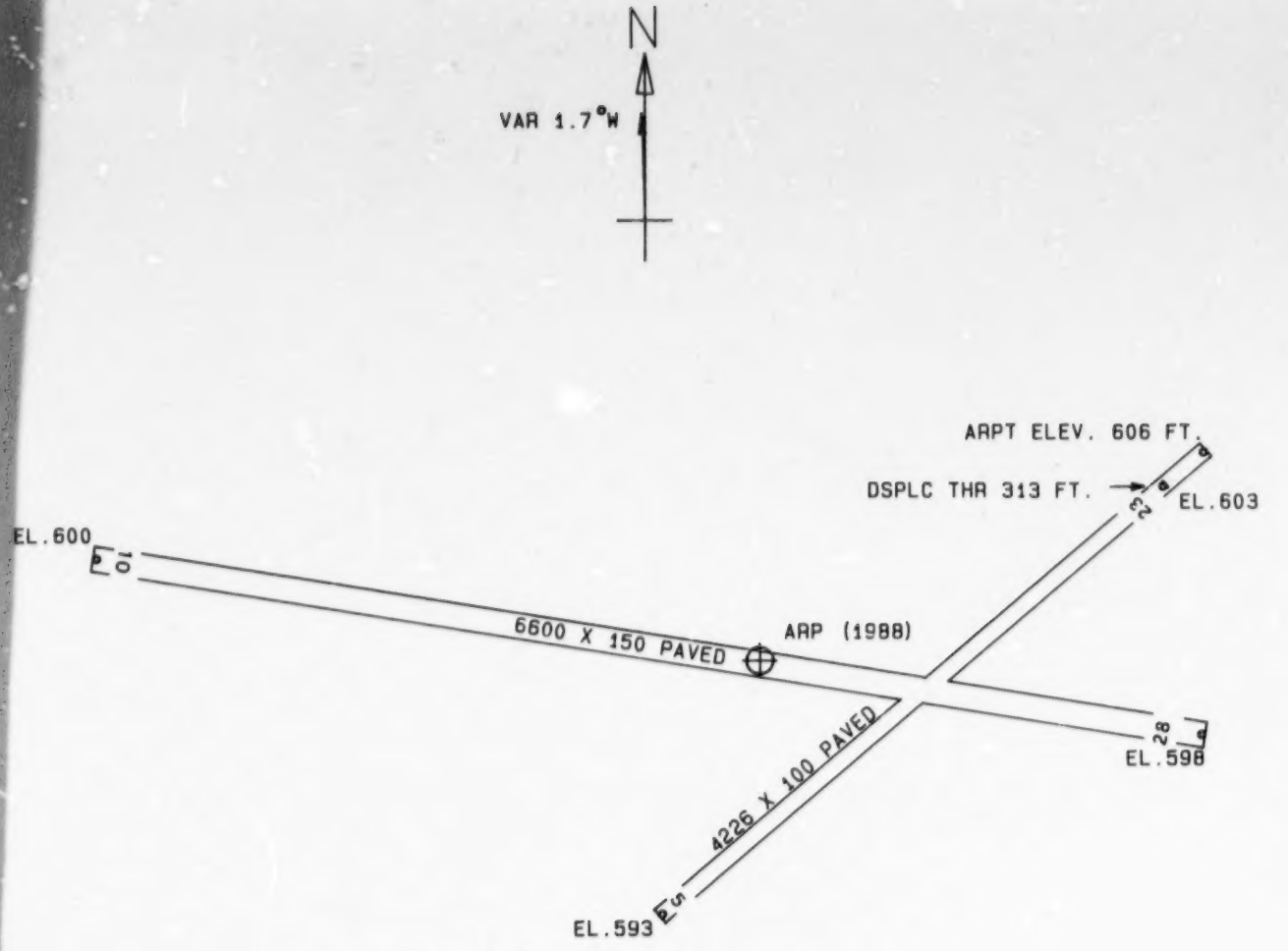
ARP 402444.214N 0865612.795W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ANEMOMETER	402450.77	0865614.53	1A	622		16	350 16	677
BOILER	402452.92	0865620.47	1A	625		19	327 44	1062
ANTENNA ON OL CONTROL TR	402453.02	0865559.83	1A	683		77	50 5	1341
TREE	402428.66	0865617.01	1A	626		20	193 24	1608
TREE	402426.10	0865619.99	1A	619		13	198 36	1916
TREE	402434.42	0865544.51	1A	633		27	116 3	2402
AIRPORT BEACON	402500.01	0865545.16	1A	690		84	54 54	2670
ROD ON OL DF ANTENNA	402446.17	0865536.66	1A	610		4	87 38	2802
OL ON HANGAR	402458.15	0865541.10	1A	640		34	61 47	2828
TREE	402454.63	0865533.46	1A	663		57	72 35	3221
OL POLE	402501.41	0865537.68	1A	647		41	59 3	3226
TREE	402457.66	0865530.89	1A	661		55	68 55	3515
TREE	402441.92	0865701.31	1A	656		50	268 10	3760
TREE	402505.48	0865530.72	1A	658		52	58 13	3902
TREE	402431.53	0865524.64	1A	632		26	110 43	3940
TREE	402444.11	0865709.09	1A	621		15	271 34	4354
TREE	402542.11	0865614.89	1B	779		173	0 7	5862
TREE	402515.34	0865720.91	1B	752		146	302 35	6138
TREE	402544.84	0865606.25	1B	767		161	6 25	6156
OL STACK	402540.48	0865647.51	1B	758		152	336 28	6295
TREE	402502.31	0865445.50	1B	791		185	76 31	6997
TREE	402508.99	0865737.50	1A	719		113	292 39	7016
ANTENNA ON BUILDING	402557.76	0865623.64	1B	774		168	355 16	7490
OL TANK	402533.71	0865457.08	1B	767		161	51 9	7706
ANTENNA ON BUILDING	402325.62	0865607.14	1B	755		149	178 33	7965
ROD ON STACK	402522.32	0865441.73	1B	777		171	63 0	8030
OL TANK	402537.96	0865448.04	1B	850	227	244	52 1	8518
TREE	402601.49	0865528.86	1B	830		224	25 11	8526
TREE	402611.40	0865551.81	1B	803		197	12 7	8971
OL MICROWAVE TOWER	402548.79	0865734.14	1B	770		164	317 48	9071
TRANSMISSION TOWER	402606.34	0865510.40	1B	832		226	31 50	9610
TREE	402637.71	0865635.70	2C	809		203	352 56	11621
	402541.99	0865830.10	1B	756		150	300 33	12123

AIRPORT ELEVATION 606

ARP 402444.214N 0865612.795W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	402610.69	0865801.56	1B	766		160	317 50	12138
TREE	402625.33	0865446.63	2C	774		168	34 46	12212
ANTENNA	402623.42	0865749.07	1B	784		173	325 9	12499
TRANSMISSION TOWER	402638.74	0865719.63	2C	812		206	337 40	12690
ANTENNA	402624.59	0865758.12	2C	768		162	322 59	13021
RADIO ANTENNA	402338.78	0865346.80	2C	778		172	122 4	13093
OL RADIO MAST	402311.77	0865813.91	2A	886	285	280	226 46	13241
TREE	402605.78	0865831.83	2C	760		154	309 13	13556
TRANSMISSION TOWER	402645.01	0865756.92	2C	830		224	328 20	14639



TOUCHDOWN ZONE RUNWAY	ELEVATION
5	597
23	603
10	601
28	598

PURDUE UNIVERSITY AIRPORT

LAFAYETTE, INDIANA

(NOT TO SCALE)